

KIRYUSHINA, M.T.

Latest tectonic movements in the Anabar crystalline shield and
adjacent areas. Trudy NIIGA 96:135-147 '59. (MIRA 13:5)
(Anabar Shield--Geology, Structural)

VORONOV, P.S.; KIRYUSHINA, M.T.; POL'KIN, Ya.I., STRELKOV, S.A.

Latest tectonic movements in the Arctic portion of the Lena-
Yenisey region. Trudy NIIOA 105:92-115 '59. (MIRA 13:5)
(Russia, Northern--Geology, Structural)

STRELKOV, S.A.; DIENER, V.D.; ZAGORSKAYA, N.G.; SOKOLOV, V.N.; YEGOROVA,
I.S.; POL'KIN, Ya.I.; KIRYUSHINA, M.T.; PUMINOV, A.P.; YASHINA,
Z.I.; SAKS, V.N., red.; NIKITINA, V.N., red. izd-va; GUROVA, O.A.,
tekhn. red.

[Quaternary sediments in the Soviet Arctic] Chetvertichnye
otlozheniya Sovetskoi Arktiki. Moskva, Gos. nauchno-tekhn.
izd-vo lit-ry po geol. i okhr. nedr, 1959. 231 p. (Leningrad.
Nauchno-issledovatel'skii institut geologii Arktiki. Trudy,
vol. 91). (MIRA 13:5)

(Russia, Northern--Geology).

KIRYUSHINA, M.T.; SOKOLOV, V.N.

Basic characteristics of the most recent tectonics of the central
section of the Soviet Arctic. Trudy NIIGA 135:70-182 '63.

(MIRA 18:5)

ARBUZOV, Yu.A.; KIRYUSHKIN, A.A.; KOLOSOV, M.N.; OVCHINNIKOV, Yu.A.; SHEMYAKIN, M.M., ~~akademik~~

Ways of constructing a ring system of BA tetracyclines. Synthesis of esters of substituted 2-oxocyclohexylacetic acids. Dokl. AN SSSR 137 no.5:1106-1109 Ap '61. (MIRA 14:4)

1. Institut khimii prirodnikh soedineniy AN SSSR i Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.
(Tetracycline) (Cyclohexanecarboxylic acid)

SHEMYAKIN, M.M.; OVCHINNIKOV, Yu.A.; ANTONOV, V.K.; KIRYUSHKIN, A.A.;
IVANOV, V.T.; SHCHELOKOV, V.I.; SHKROB, A.M.

Synthesis of 0,0'-diacetylserratamolide. Izv. AN SSSR.
Ser. khim. no.12:2233 D '63. (MIRA 17:1)

1. Institut khimii prirodnkh soedineniy AN SSSR.

RYABOVA, I. D.; PAVLENKO, I. A.; VINOGRADOVA, Ye. I.; OVCHINNIKOV, Yu. A.; ALDANOVA, N. A.; KIRYUSHKIN, A. A.; IVANOV, V. T.; FEYGINA, M. Yu.

"Antimicrobial activity of depsipeptides."

report submitted for Antibiotics Cong, Prague, 15-19 Jun 64.

Inst for Chemistry of Natural Compounds, AS USSR, Moscow.

AVCHINNIKOV, Yu.A.; IVANOV, V.T.; KIRYUSHKIN, A.A.; SHEMYAKIN, M.M.

Structure of enniatin A. Izv.AN SSSR.Otd.khim.nauk no.8:1497
Ag '62. (MIRA 15:8)

1. Institut khimii prirodnnykh soyedineniy AN SSSR.
(Antibiotics)

SHEMYAKIN, M. M.; VINOGRADOVA, Ye. I.; FEYGINA, M. Yu.; ALDANOVA, N. A.;
OVCHINNIKOV, Yu. A.; KIRYUSHKIN, A. A.

Depsipeptides. Part 16: Paths in the synthesis of optically
active linear depsipeptides. Zhur. ob. Khim. 34 no.6:1782-
1791. Je '64. (MIRA 17:7)

1. Institut khimii prirodnnykh soyedineniy AN SSSR.

OVCHINNIKOV, Yu.A.; IVANOV, V.T.; KIRYUSHKIN, A.A.; SHEMYAKIN, M.M.,
akademik

Conformation factors in the cyclization of depsipeptides.
Dokl. AN SSSR 153 no.6:1342-1345 D '63. (MIRA 17:1)

1. Institut khimii prirodnnykh soyedineniy AN SSSR.

OVCHINNIKOV, Yu.A.; IVANOV, V.T.; KIRYUSHKIN, A.A.

Depsides. Report No.6: Preparation of L- and D-N-methylvalines.

Izv. AN SSSR. Otd.khim.nauk no.11:2046-2054 N '62.

(MIRA 15:12)

1. Institut khimii prirodnnykh soyedineniy AN SSSR.
(Valine)

SHEMYAKIN, M.M.; OVCHINNIKOV, Yu.A.; IVANOV, V.T.; KIRYUSHKIN, A.A.

Total synthesis of sporidesmin 1. Izv.AN SSSR.Otd.khim.nauk no.9:1699-
1700 S '62. (MIRA 15:10)

1. Institut khimii prirodnkh soedineniy AN SSSR.
(Sporidesmin)

SHEMYAKIN, M. M.; OVCHINNIKOV, Yu. A.; KIRYUSHKIN, A. A.; IVANOV, V. T.

Depsides. Report No. 7: Structure of anniatin B. Izv. AN SSSR
Otd. khim. nauk no.12:2154-2161 D '62. (MIRA 16:1)

1. Institut khimii prirodnkh soyedineniy AN SSSR.

(Depsides)

OVCHINNIKOV, Yu.A.; IVANOV, V.T.; KIRYUSHKIN, A.A.; KHALILULINA, K.Kh.

Synthesis of sporidesmolic acid B. Izv. AN SSSR. Otd. khim. nauk
no. 3: 578-579 Mr '63. (MIRA 16:4)

1. Institut khimii prirodnnykh soyedineniy AN SSSR.
(Sporidesmolic acid)

SHEMYAKIN, M.M.; OVCHINNIKOV, Yu.A.; KIRYUSHKIN, A.A.; IVANOV, V.T.

Structure and total synthesis of enniatin B. Izv.AN SSSR.
Otd.khim.nauk no.3:579 Mr '63. (MIRA 16:4)

1. Institut khimii prirodnkh soedineniy AN SSSR.
(Enniatin)

OVCHINNIKOV, Yu.A.; KIRYUSHKIN, A.A.; IVANOV, V.T.; SHEMYAKIN, M.M.

Structure of sporidesmolide; part 2. Izv. AN SSSR. Otd. khim. nauk no.4:
770 Ap '63. (MIRA 14-3)

1. Institut khimii prirodnnykh soyedineniy AN SSSR.
(Sporidesmin)

SHEMYAKIN, M.M.; OVCHINNIKOV, Yu.A.; KIRYUSHKIN, A.A.; IVANOV, V.T.

Synthesis of enniatin A. Izv. AN SSSR. Otd.khim.nauk no.6:11/8
Je '63. (MIRA 16:7)

1. Institut khimii prirodnikh soedineniy AN SSSR.
(Peptides)

OVCHINNIKOV, Yu.A.; IVANOV, V.T.; KIRYUSHKIN, A.A.;
SHEMYAKIN, M.M., akademik

Doubling mechanism in the cyclization of depsipeptides and
peptides. Dokl. AN SSSR 153 no.1:122-125 N '63.

(MIRA 17:1)

1. Institut khimii prirodnnykh soyedineniy AN SSSR.

SHEMYAKIN, M. M.; OVCHINNIKOV, Yu. A.; IVANOV, V. T.; KIRYUSHKIN, A. A.

"Studies in the conformation of cyclodepsipeptides."

report submitted for the 7th European Peptide Symp, Budapest, 3-8 Sep 64.

TSARITSYN, M.A.; ZAKHARENKO, N.I.; ODNODVORTSEV, P.Ye.; KIRYUSHKIN, A.M.;
PROKOP'YEVA, Z.I.

Mechanized working of selenium ruby sheet glass. Stek. 1 ker.
19 no.8:16-19 Ag '62. (MIRA 15:9)
(Glass, Colored)

KIRYUSHKIN, A.Ya.

Protective afforestation in the control of soil erosion. Okhr.
prir. Mold. no.2:42-46 '61. (MIRA 15:8)
(Moldavia--Soil conservation) (Moldavia--Afforestation)

A. ERYUSHEV, D. M., DMITRIYENKO, G.V., redaktor; MAKHOVA, N.N., tekhnicheskiy redaktor

[Chemistry; a manual for the 7th grade in seven-year and secondary schools] Khimiya; uchebnik dlia 7 klassa semiletnei i srednei shkoly. Izd. 4-oe. Moskva, Gos.uchebno-pedagog. izd-vo M-va prosv. RSPSR, 1952. 142 p. (MIRA 10:10)
(Chemistry)

KIRYUSHKIN, D.M.

[Methodology of teaching chemistry in secondary schools] Metodika
prepodavaniia khimii v srednei shkole: posobie dlia uchitelei.

Moskva, Uchpedgiz, 1952.

(MLRA 8:1)

(Chemistry--Study and teaching)

KIRYUSHKIN, D.M. (gorod Moscow).

~~Library of the Ministry of Education~~

Application of certain mathematical rules and formulas in chemistry
classes. Khim.v shkole no.6:43-46 N-D '53. (MLRA 6:11)
(Chemistry--Study and teaching) (Mathematics)

KIRYUSEKIN, D.M.; DMITRIYENKO, G.V., redaktor; DZHATIYEV, S.G.,
tekhnicheskiiy redaktor

[Chemistry; textbook for the 7th class of 7-year
and secondary schools] Khimiia; uchebnik dlia sed'mogo klassa
semiletnei i srednei shkoly. Moskva, Gos. uchebno-pedagog. izd-
vo Ministerstva prosveshcheniia RSFSR, 1954. 111 p. (MLRA 7:10)
(Chemistry)

KIRYUSHKIN, D.M.

Revised chemical manual for the 7th class. V.N.Verkhovskii.
Reviewed by D.M.Kiriushkin. Khim.v shkole 9 no.6:24-33 N-D '54.
(MLRA 8:1)

(Chemistry--Study and teaching) (Verkhovskii, Vadim
Nikandrovich, 1873-1947)

KIRYUSHKIN, D.M.

~~Methodology of chemical lecture experiments.~~ Khim.v shkole 10 no.2:
30-38 Mr-Apr '55. (MIRA 8:7)
(Chemistry--Experiments)

KIRYUSHKIN, Dmitriy M

YEGORKIN, Vasil'y Fedorovich; ~~KIRYUSHKIN, Dmitriy Maksimovich~~; POLOSIN, Viktor Semenovich; ~~GRABETSKII, A.A., redaktor~~; ~~BEZHATYEV, S.G.,~~ tekhnicheskii redaktor.

[Practical work in chemistry outside class; a manual for students in secondary schools] Vneklassnye prakticheskie zaniatiia po khimii; rukovodstvo dlia uchashchikhsia srednei shkoly. Pod obshchei red. A. M. Kiriushkina.. Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv. RSFSR, 1956. 263 p.

(Chemistry--Laboratory manuals)

(MLRA 104)

KIRYUSHKIN, D.M. (Moskva)

First step in teaching the concept "atom". Khim.v shkele 11 no.4:
36-40 J1 '56. (Atoms--Study and teaching) (MLRA 9:9)

KIRYUSHKIN, Dmitriy Maksimovich; SERGUYENKOV, A.A., red.; NATAPOV, M.I.,
tekh. red.

[Methods of teaching chemistry in secondary schools; manual for
teachers] Metodika prepodavania khimii v srednei shkole; posobie
dlia uchitelei. Izd. 2., perer. Moskva, Gos. uchebno-pedagog. izd-
vo M-va prosv. RSFSR, 1958. 610 p. (MIRA 11:9)
(Chemistry—Study and teaching)

KIRYUSHKIN, Dmitriy Maksimovich (Institute of the Theory and History of
Pedagog~~ical~~^y of the Acad of Pedagogical Sci^y RSFSR) for Doc of Pedagogical
Sci~~ences~~, on the basis of dissertation defended 11 Sep 59 in Council of
Sci Res Inst of ~~the~~ Methods of ^{Instruction} Teaching of the Acad of Pedagogical Sci
RSFSR^y, entitled: "~~the~~ Methods of Teaching Chemistry in ^{Secondary} ~~High~~ Schools."
(BIVISSO USSR, 2-61, 22)

KIRYUSHKIN, D.M.

Planned chemistry program for the eight-year and eleven-year
schools. Khim.v shkole 15 no.1:57-59 Jan '60.
(MIRA 13:5)

(Chemistry--Study and teaching)

GORBYKIN, V.I.; KIRYUSHKIN, D.M.; MALININA, S.I.; PKHAKADZE, Ye.A.; FURSOVA,
K.H.

Independent work of eight grade students in the first topic of their
chemistry course. Khim. v shkole 15 no.5:21-30 S-O '60.

(MIRA 13:10)

(Chemistry--Study and teaching)

KIRYUSHKIN, D.M.; MALININA, S.I.; FURSOVA, K.N.

Independent work of students in laboratory classes on chemistry.
Khim. v shkole 17 no.2:17-28 Mr-Apr '62. (MIRA 15:3)
(Chemistry—Study and teaching)

YAKOVLEV, Fedor Ivanovich; KIRYUSHKIN, Dmitriy Maksimovich;
VOROB'YEV, Gennadiy Vasil'yevich; KULIKOV, V.N., red.;
POLUKARPOVA, Ye.K., tekhn. red.

[Laboratory practice for students] Laboratorno-prakticheskie raboty uchashchikhsia. Moskva, Izd-vo APN RSFSR, 1963.
229 p. (MIRA 16:8)
(Science--Problems, exercises, etc.)

VASIK, G.Ye.; KIRYUSHKIN, D.M.; LAVRENT'YEVA, A.V.; SYROYEZHNIKIN, I.T.

Organizing the independent work of students during the study
of the general properties of elements. Khim. v shkole 18
no.4:43-48 J1-Ag '63. (MIRA 17:1)

KIRYUSHKIN, I.

What figures tell. Zhil.-kom. khoz. 13 no.5:23-24 Ky '63.

(MIRA 16:8)

1. Starshiy ekonomist TSentral'nogo statisticheskogo upravleniya
SSSR.

(Laundries)

KIRYUSHKIN, K.I.

Quick-acting closing device. Transp. i khran. nefti no.1:28
'63. (MIRA 16:9)

1. Sverdlovskaya neftebaza Glavnogo upravleniya po transportu
i snabzheniyu nefi'yu i nefteproduktami RSFSR.

KIRYUSHKIN, K.I.; ARTEMOV, A.V.

Suggestion on design changes for service stations. Transp. i khran.
nefti i nefteprod. no.7:27-29 '65. (MIRA 18:9)

1. Sverdlovskaya perevalochnaya neftebaza.

KIRYUSHKIN, K.I.

Preparation of tanks for repair. Neftianik 6 no.7:17-18 J1 '61.
(MIRA 14:7)

1. Glavnyy inzh. Shartashskoy neftebazy Sverdlovskoy oblasti.
(Tanks—Maintenance and repair)

1. KIRVUSHKIN N. Eng

2. II SSR (600)

4. Tractors

7. Lowering cost of tractor operations. MTS 12no. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

1. STEPANENKO, V.; EVTIKHIV, N.; KIRYUSHKIN, N., Eng.

2. USSR (600)

4. Machine-Tractor Stations

7. Utilizing all possibilities for increasing yield, MTS, 13, no. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

ZAYTSEV, I.A., inzh.; KIRYUSHKIN, P.A., inzh.

Power plant on the tank vessel "Mir." Sudostroenie 28 no.2:
37-40 F '62. (MIRA 153)
(Marine gas turbines) (Tank vessel)

KIRYUSHKIN, V.

Communists are leading the competition of rural builders. Sel'. stroi.
14 no.11:4-5 N '59 (MIRA 13:3)

1. Sekretar' Yershovskogo raykoma Koministicheskoy partii Sovetskogo
Soyuz Saratovskoy oblasti.
(Yershov--Farm buildings)

GUS'KOVA, A.K.; YURKOV, N.N.; KIRYUSHKIN, V.I. (Moskva)

Compensatory reactions in insufficiency of the brain's blood supply. Zhur.nevr.i piskh. 61 no.10:1457-1462 '61.

(MIRA 15:11)

(CEREBROVASCULAR DISEASES) (ELECTROENCEPHALOGRAPHY)

KIRYUSHKIN, V.N.

Development of bogs on gentle slopes in fluvioglacial deposit areas
as exemplified by southeastern Karelia. Uch. zap. Petrozav. gos. un.
12 no.2:85-89 '64. (MIRA 18:7)

KIRYUSHKIN, V.N. (Leningrad)

Some bog systems of Archangel Province (based on the example of the
bog system of the Mozen'-Kuloy interfluvium). Bot. zhur. 50 no.3:375-
378 Mr '65. (MIRA 18:5)

BAGROBA, Z.A.; KIRYUSHKIN, V.N.

Relation of swamps and bogs to relief, Quaternary sediments
and recent tectonic movements. Dokl. AN SSSR 154 no.2:
337-340 Ja'64. (MIRA 17:2)

1. Laboratoriya aerometodov Ministerstva geologii i okhrany
nedr SSSR, Leningrad. Predstavleno akademikom D.V. Nalivkinym.

KIRYUSHKIN, Viktor Vladimirovich; KLIPML', Vladimir Ivanovich

[Voyage on the "Skorlupka."] Puteshestvie na "Skarlupke."
Blagoveshchensk, Amurskoe knizhnoe izd-vo, 1958. 171 p.
(MIRA 12:6)

(Amur Valley--Description and travel)

KIRYUSHKIN, Viktor Vladimirovich; KLIPEL', V.I.

[Voyage on the "Skorlupka."] Puteshestvie na "Skorlupke." Moskva,
Molodaia gvardiia, 1960. 157 p. (MIRA 14:10)
(Amur Valley--Description and travel)

SHIPITSYN, S.A.; KIRYUSHKIN, V.V.; YERMOLAYEV, A.A.

Gas burner for flame photometry of powder specimens. Zav. lab. 31
no.2:253 '65. (MIRA 18:7,

1. Irkutskiy gosudarstvennyy universitet.

KIRYUSHKIN, Yu. I.

Dissertation: "Viscosity and Electrical Conductivity of Lime-Silica Fusions and Their Effect on the Properties of Chromium Oxides." Cand Tech Sci, Moscow Inst of Steel, Moscow, 1953. (Referativnyy Zhurnal—Khimiya, Moscow, No 4, Feb 54)

SO: SUM 243, 19 Oct 54

SOV/137-57-6-9643

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 6, p 48 (USSR)

AUTHOR: Kiryushkin, Yu.I.

TITLE: The Viscosity and Electrical Conductivity of Lime-silicon Melts
(Vyazkost' i elektroprovodnost' izvestkovo-kremnezemistyykh rasplavov)

PERIODICAL: Sb. nauch. tr. Zhdanovsk. metallurg. in-ta, 1955, Nr 3, pp 59-73

ABSTRACT: A study is made of the viscosity η and the electrical conductivity κ of synthetic slags of the CaO-SiO_2 binary system. η is measured by a rotating electrical viscosimeter working on the principle of concentric cylinders. The inner cylinder is caused to rotate by a tiny D-C motor. κ is determined by measuring the electrical resistance R of the slag between a graphite crucible and a W electrode in the center thereof at two different depths of immersion of the electrode and is calculated on the equation $\kappa = (K_2 - K_1)/(R_1 - R_2)$, where K_1 and K_2 are the resistive capacitances at two different levels of immersion, determined by gradation. The η and the κ of melts with a CaO content of 34-59 mol.% in the temperature interval from 1650°C to onset of crystallization are measured. The results

Card 1/2

SOV/137-57-6-9643

The Viscosity and Electrical Conductivity of Lime-silicon Melts

of the investigation are presented in the form of curves of variation in η (2-20 poises) and κ (0.1-0.8 $\text{ohm}^{-1}\text{cm}^{-1}$) versus temperature. The ionic nature of the conductivity of CaO and SiO₂ melts is confirmed. No correspondence between the η and κ isotherms and the fusibility diagram of the CaO-SiO₂ systems is found at above 1550°. It is assumed that a rapid increase in η and drop in κ starting at ~45 mol.% CaO is induced by an intensification of the polymerization of the SiO₄⁴⁻ silicate tetrahedra and formation of more complex Si_xO_y^{z-} types.

O.B.

Card 2/2

SOV/137-58-12-24176

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 12, p 36 (USSR)

AUTHORS: Skoblo, S. Ya., Bul'skiy, M. T., Kiryushkin, Yu. I., Alimov, A. G.,
Pereverzeva, Ye. G., Sviridenko, F. F.

TITLE: Visual Slag Control in High-Phosphorus Iron Conversion (Vizual'-
nyy kontrol' shlaka vysokofosforogo peredela)

PERIODICAL: Sb. nauchn. tr. Zhdanovsk. metallurg. in-t, 1957, Nr 4, pp 61-76

ABSTRACT: The basicity and degree of oxidation of a slag cake cast into an iron
sampler is estimated by the appearance of its upper and lower surface
and its fracture. The basicity indicator chosen for open-hearth slags
in conversion of high-phosphorus pig iron is $V_1 = \text{CaO} / \text{SiO}_2 + \text{P}_2\text{O}_5$.
The % ratio of P_2O_5 and Fe to V_1 is empirically expressed in the
form $\text{P}_2\text{O}_5\% = 68 / V_1 + 2.5$, and $\Sigma(\text{Fe}) = 1.5 + 4V_1$. An analogous con-
nection is established between the sum of P_2O_5 and SiO_2 and $\Sigma(\text{Fe})$.
Visual determination of V_1 makes it possible to determine P_2O_5 and
 $\Sigma(\text{Fe})$ % in slags to an accuracy adequate for all practical purposes.
Toward this end, a standard scale by slag sub-groups is established,
permitting determination of V_1 to an accuracy of $\pm 0.2 - 0.3 V_1$. A
description and photographs of slag cakes of various basicities are

Card 1/2

SOV/137-58-12-24176

Visual Slag Control in High-phosphorus Pig-iron Conversion

established, and the identifying characteristics of a slag cake permitting deformation of up to 0.03% P before deoxidation are presented.

Yu. K.

Card 2/2

SOV/137-58-8-16394

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 24 (USSR)

AUTHOR: Kiryushkin, Yu.I.

TITLE: The Electrical Conductivity of the $\text{CaO} - \text{SiO}_2 - \text{Cr}_2\text{O}_3$ -type
Slags (Elektroprovodnost' shlakov v sisteme $\text{CaO-SiO}_2\text{-Cr}_2\text{O}_3$)

PERIODICAL: Sb. nauchn. tr. Zhdanovsk. metallurg. in-t, 1957, Nr 4,
pp 88-96

ABSTRACT: (CaO) varied from 41.5 to 53.5%, (Cr_2O_3) did not exceed 18%.
The temperature of the test was $\leq 1600^\circ\text{C}$. The $\text{CaO}:\text{SiO}_2$
ratio was kept at 1.0-1.3 with a variable (Cr_2O_3) and additions
of MgO . The electrical conductivity was determined by means
of a measurement of the resistance of the slag between the
graphite crucible and the centrally located W electrode with
two immersions of it in the slag. The results of the experi-
ments point to the ionic character of the conductivity of the
slags studied. In weakly alkaline slags Cr is present in the
form of Cr^{3+} and Cr^{2+} . The proportion of the latter in-
creases with a decrease in the basicity which is indicated by
the higher values of x of slags containing Cr. At 1500° Cr^{2+}

Card 1/2

SOV/137-58-8-16394

The Electrical Conductivity of the $\text{CaO} - \text{SiO}_2 - \text{Cr}_2\text{O}_3$ -type Slags

disappears with the formation of Cr^{3+} and metallic Cr, which is indicated by a slower decrease of κ upon the crystallization of chromous slags than of slags containing no Cr. Consequently, the appearance of electronic conductivity of the slag is possible during the period of disappearance of Cr^{2+} . Because the κ of basic slags decreases with an increase in (Cr_2O_3) , the author assumes the presence of molecules of Cr_2O_3 in the slags.

Yu.N.

1. Slags--Conductivity 2. Metal oxides--Properties

Card 2/2

SOV/130-59-1-8/21

AUTHORS: Skoblo S.Ya., Kazachkov Ye.A., Pereverzeva Ye.G.,
Kiryushkin Yu.I., Strakhov V.G., Sviridenko F.F.,
Bul'skiy M.T., and Alimov A.G.

TITLE: Quality of a Rail-Steel Ingot weighing 9.75 Tonnes
(Kachestvo slitka rel'sovoy stali vesom 9.75 t)

PERIODICAL: Metallurg, 1959⁴, Nr 1, p 19 (USSR)

ABSTRACT: At the "Azovstal'" works rail-steel ingot weight has been increased for 6.6 to 9.75 tonnes to increase casting-pit capacity and improve the utilization of rolling mill capacity. The authors give a brief description of the results of comparative investigations of large and small ingots. The quality was evaluated from sulphur prints of longitudinal ingot sections, from the macro-structure (with deep etching) of transverse strips, differences in the etching of samples from different zones of the ingot and distribution of segregated impurities and non-metallic inclusions in the ingot. Among the conclusions drawn are that the two ingot types are equal in physical,

Card 1/2

SOV/130-59-1-8/21

Quality of a Rail-Steel Ingot weighing 9.75 Tonnes

structural and chemical heterogeneity, the non-metallic inclusions in the large ingot do not exceed those in a sound 4.0-tonne rail-steel ingot; the amount of non-metallic inclusions, which greatly affect the mechanical properties, can be reduced by careful preparation of runner and ladle.

ASSOCIATION: Zhdanovskiy metallurgicheskiy institut (Zhdanov metallurgical institute) and the "Azovstal'" works

Card 2/2

S/137/62/000/003/022/191
A006/A101

AUTHORS: Kazachkov, Ye. A., Skoblo, S. Ya., Kiryushkin, Yu. I., Dorokhov,
V. I., Sapelkin, N. F.

TITLE: Investigating the thermal work of molds for forging ingots

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 44, abstract 3V268
("Sb. nauchn. tr. Zhdanovsk. metallurg. in-t", 1960, no. 6, 68-109)

TEXT: The thermal work of molds was investigated during the solidification of three different sizes of forging ingots, cast into octahedral through-molds with a floating riser. One of the ingots weighing 24.5 tons was cast into a mold at top position of the floating riser; the second ingot weighing 24.5 tons - at a lower position of the floating riser, and the third ingot, weighing 42.5 tons, at a considerable immersion of the floating riser into the mold. All the ingots were cast from grade 55X (55Kh) steel from different heats, melted in basic open hearth furnaces. The temperature distribution at various spots across the mold walls was determined during the solidifying of the ingot from readings of 24 - 26 thermocouples, which were placed on the mold walls at different depths and several height levels. Moreover, during the solidification process, periodic

Card 1/2

S/133/61/000/002/002/014
A054/A033

AUTHORS: Skoblo, S.Ya., Candidate of Technical Sciences, Strakhov, V.G.,
Candidate of Technical Sciences, Kiryushkin, Yu.I., Candidate of
Technical Sciences, Chernyshev, I.S., Engineer, Oleshkevich, T.I.,
Engineer

TITLE: Heat Insulation of the Dozzle Metal of 8-15 Ton Slabs

PERIODICAL: Stal', 1961, No. 2, pp. 119-123

TEXT: The metal losses in the riser can only be reduced by improving the
thermal conditions of the dozzle. This is possible by improving the heat
insulation and the thermal activity of lunerites used. When studying this
problem at the zavod im. Il'icha (Plant im. Il'ich) the following kinds of
lunerites were used: (in %)

	45%-ferrosilicium	Coke Breeze	Chamotte	Bauxite
Л1 (L1)	-	45	55	-
Л2 (L2)	30	25	30	15

Card 1/10

S/133/61/000/002/002/014
A054/A033

Heat Insulation of the Dozzle Metal of 8-15 Ton Slabs

The CT.3cn (St.3 sp) type slabs investigated for this purpose were cast according to the conventional technology, by scattering 1.8-2.0 kg/ton lunkerite on the surface. Two types of ingot molds were used: conventional (ЛП8-11, ЛП11-15 = LP8-11, LP11-15) and semi-hammered type (ЛП8-11П, ЛП11-15П = LP8-11P, LP11-15P) for 8-15 ton ingots, with changeable bottom. Steel was poured through an intermittent device with two spouts, 28 mm in diameter, at a distance of 700 mm from each other. The dozzles were lined with chamotte bricks. On account of the considerable thickness of the lining (115-155 mm) the risers were filled with 20-19% of the slab metal. Since the heat losses depend on the surface and the temperature of the various layers of the dozzle wall, their temperature was registered by means of several chromel-alumel thermocouples (Fig.2) and with ЭПП-09 (EPP-09) electronic potentiometers. In the thermal calculations the formula for flat walls was used assuming a linear heat distribution in the thickness of every lining layer. The amount of heat accumulating on 1 m² of a homogenous layer of the lining was determined by

Card 2/10

S/133/61/000/002/002/014
A054/A033

Heat Insulation of the Dozzle Metal, of 8-15 Ton Slabs

and

$$Q_1 = \sum q_1 \quad (1)$$

$$q_1 = \delta_1 \gamma_1 c_1 (t_1 \text{ aver} - t_1 \text{ init}) \quad (2)$$

[Abstracter's note: Subscript aver is the translation of the Russian subscript ср. = средний (srednyy) and subscript init is the translation of нач. = начальный (nachal'nyy)]. In formula (1): Q_1 = amount of heat accumulated on 1 m² of the dozzle wall, in cal/m²; q_1 = idem, for 1 m² of a homogeneous layer of the wall, in cal/m²; δ_1 , γ_1 , c_1 = width (m), volumetric weight (kg/cu m) and heat capacity (cal/kg °C) of the homogeneous layer; t_1 init and t_1 aver = the corresponding initial and average temperature of the layer, in °C. The heat losses caused by radiation and convection on 1 m² of the external dozzle surface were calculated from the expression:

$$Q_2 = \alpha (t_{s. \text{ aver}} - t) \quad (3)$$

where Q_2 = amount of heat released by 1 m² of the external dozzle surface during τ time, in cal/m²; α = the coefficient of heat loss of this surface, in cal/m² h °C; [Abstracter's note: Subscript s.aver (surface average) is the

Card 3/10

S/133/61/000/002/002/014
A054/A033

Heat Insulation of the Dozzle Metal of 8-15 Ton Slabs

translation of the Russian $\pi. \phi$ - $\text{ноб. пр. ч. о. с. т. б. с. р. е. д. н. и. й}$ (poverkhnost'). τ = time for which Q_2 is determined, in hours. It was established that maximum heat losses arose when the dozzle was insulated in the conventional manner, with a high heat capacity. However, these losses are not considerable, about 13-20% of the total losses. The effect of the improved heat conditions of the dozzle on the duration of metal solidification was also studied (by sounding and extrapolating the results for the entire height of the ingot). It was found that the crystallization depends not so much on the weight of the ingot, but rather on the type of mold used. To make a definite assessment of the effect of heat conditions of the dozzle, 237 ingots (8-15 t) were cast from St.3 steel, with a smaller riser (16% of the nominal ingot weight). It was found that this decrease of the riser did not result in an increase of slabs showing laminations at the top. This can be explained by the satisfactory localization of shrinkage holes in this part of the ingot. The service life of the chamotte layer could be increased about 3 times, by straightening out the curves of its side surfaces. Further improvement in

Card 4/10

8/13/00
A054/A033

Heat Insulation of the Dozzle Metal of 8-15 Ton Slabs

this respect can still be obtained by structural changes of the dozzle. Thus, by applying a double-layer lining (115 mm thick foam chamotte and 40 mm thick chamotte brick layer), about 2.5-4% of the metal can be saved by the localization of the shrinkage holes in the risers. The saving amounted to 10.8 rubles/ton for bridge steel, 11.1 rubles/ton for carbon steel and 12.3 rubles/ton for boiler steel. (1960 currency). There are 6 figures and 2 tables.

ASSOCIATION: Zhdanovskiy metallurgicheskii institut (Zhdanovsk Metallurgical Institute) and zavod im. Il'icha (Plant im. Il'ich)

Card 5/10

Heat Insulation of the Dossle Metal of 8-15 Ton
Slabs

S/133/61/000/002/002/014
A054/A033

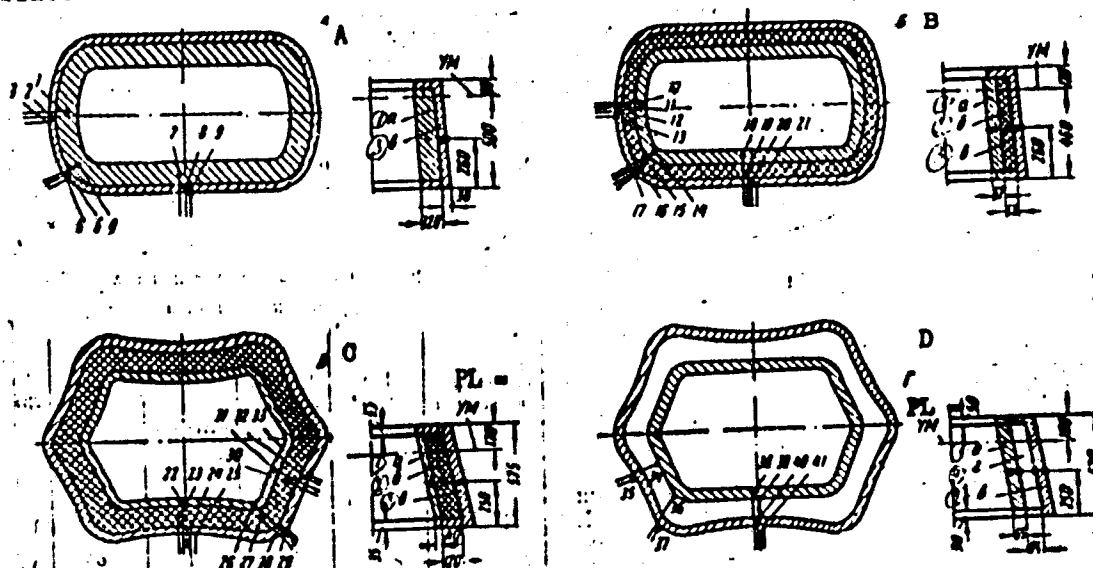


Figure 2

Card 6/10

Heat Insulation of the Dossle Metal of 8-15 Ton
Slabs

8/133/61/000/002/002/014
A054/A033

Figure 2: (continued)

Scheme of lining dozzles and the arrangement of thermocouples in them:

A - first variant of insulation; B - second and third variant; C - fourth variant; D - fifth variant

(1 - chamotte, 2 - foam chamotte, 3 - iron case, 4 - air gap, PL - YHM - pouring level; 1-41 number of thermocouples)

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Card 7/10

Heat Insulation of the Dossle Metal of 8-15 Ton Slabs

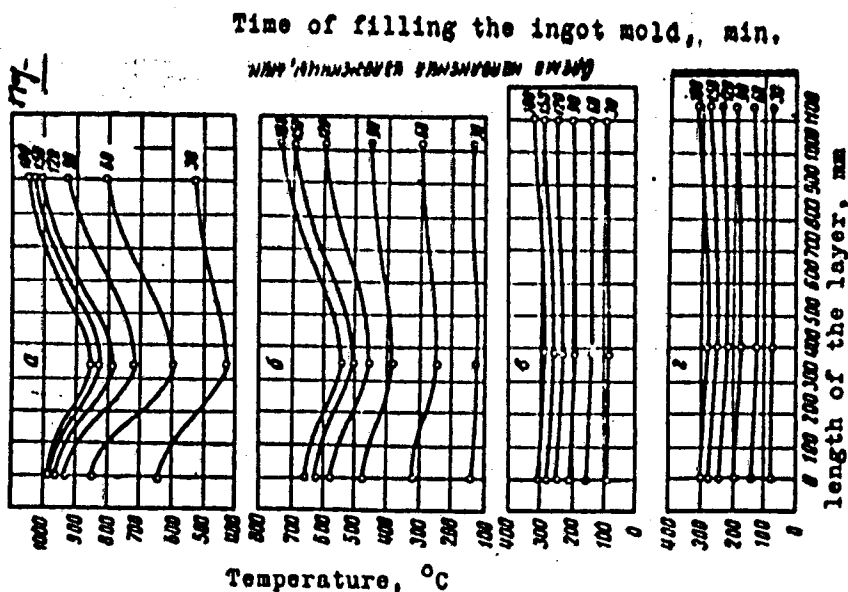
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A054/A033

Figure 3:

Distribution of temperature at 1/4 of the periphery of the dozzle (the points on the curves - from left to right - correspond with the thin edge, the rib and the wide edge of the dozzle

- 1 - chamotte,
- 2 - foam-chamotte,
- 3 - center of the case thickness,
- 4 - external surface of the case

Card 8/10



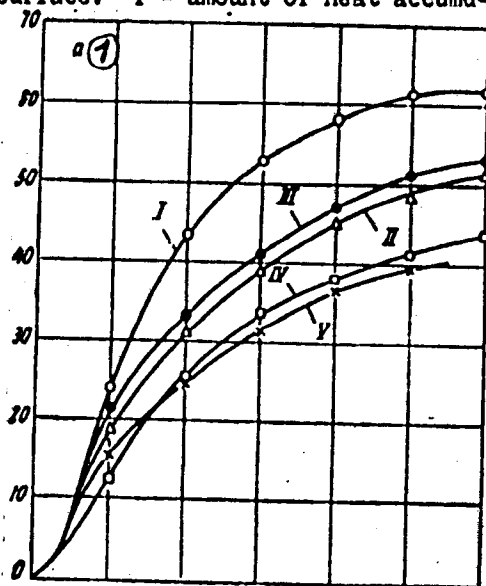
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Heat Insulation of the Dozzle Metal of 8 - 15 Ton Slabs A054/A033

Figure 4: Heat losses on 1 m² of the dozzle surface. 1 - amount of heat accumulated by the dozzle wall.

(I - V; variants of insulation methods, Table 1)

Vertical legends: Heat losses, 10³ cal/m²
Horizontal legend: Time from the beginning of the filling of the riser, min.

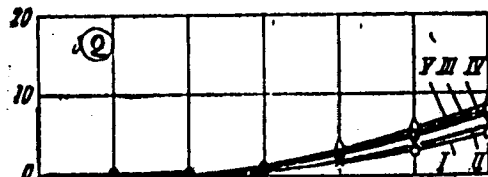


Card 9/10

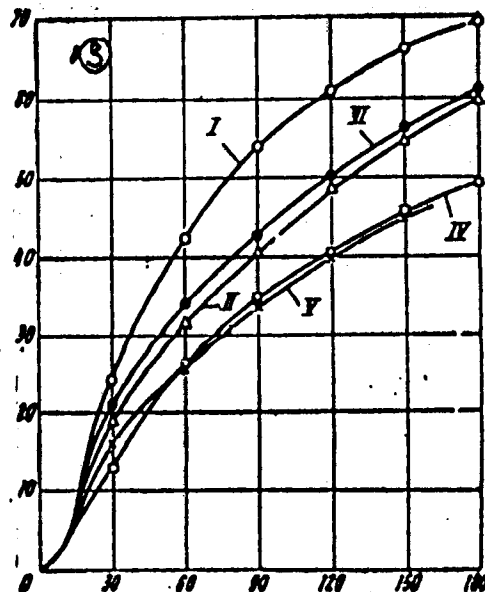
9/133/61/000/002/002/014
A054/A033

Heat Insulation of the Dozzle Metal of 8 - 15 Ton Slabs

Figure 4 (continued): 2 - heat losses due to convection and radiation;



3 - total losses



Card 10/10

37257

S/148/62/000/003/002/011
E071/E435

18.7/20

AUTHORS:

Skoblo, S.Ya., Kazachkov, Ye.A., Strakhov, V.G.,
Kiryushin, Yu.I., Sapelkin, N.F.

TITLE:

A study of the kinetics of the process of
solidification of the axial part of an ingot by the
method of differential probing

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy.
Chernaya metallurgiya, no.3, 1962, 53-59

TEXT: A method of probing of ingots during their solidification
and some results on the kinetics of solidification of ingots of
the most prevailing shape (wide-side up with a relatively small
ratio of the height to mean cross-section) are described. After
a brief survey of the usual methods of investigation of the
process of solidification of ingots (emptying after a given
solidification time, additions of radioactive element at given
time intervals during the solidification process, probing with a
rod) the authors consider that neither method by itself gives
sufficient information on the solidification process. Moreover,
a comparison of the results obtained by various methods indicates
Card 1/3

A study of the kinetics ...

S/148/62/000/003/002/011
7071/E435

that the solidification of ingots of the shapes investigated in the vertical direction is completed earlier than in the horizontal direction. Therefore, in the authors' view an improved method of vertical probing which they developed gives more information on the kinetics of solidification of ingots and does not interfere with the subsequent utilization of the probed ingots. The method, called differential probing, consists of inserting a mild steel rod (12 mm in diameter) into the ingot under its own weight and noting the length of the immersed part of the rod (height of the liquid phase) then by applying a certain force the rod is immersed to the solid bottom of the ingot and again the length of the rod immersed is noted. The difference gives the height of the two phase (liquid + solid) zone. Other data, characterizing the kinetics of solidification, can be calculated from the above measurements, for instance the height of the solid bottom layer and, if the initial level of the metal in the top is known, shrinkage to the moment of probing. By repeating such measurements throughout the solidification period, kinetic curves characterizing vertical movement of the solid phase

Card 2/3

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A study of the kinetics ...

S/148/62/000/003/002/011
E071/E435

were obtained. These showed the existence of three distinct zones: the initial and final - parabolic in shape - and the intermediate - close to a straight line. Changes in the height of the two phase zone are expressed by a curve with a maximum corresponding to the middle of the total period of solidification. A more detailed discussion of the results obtained will be published later. There are 6 figures.

ASSOCIATION: Zhdanovskiy metallurgicheskiy institut
(Zhdanov Metallurgical Institute)

SUBMITTED: February 17, 1961

Card 3/3

X

SKOBLO, S.Ya.; KAZACHKOV, Ye.A.; STRAKHOV, V.G.; KIRYUSHIN, Yu.I.;
SAPELKIN, N.F.

Studying the kinetics of the solidification process in the
axial part of an ingot by differentiated probing. Izv. vys.
ucheb. zav.; chern. met. 5 no.3:53-59 '62. (MIRA 15:5)

1. Zhdanovskiy metallurgicheskiy institut.
(Steel ingots--Testing) (Solidification--Testing)

SVIRIDENKO, P.F.; KIRYUSHKIN, Yu.I.; KAZACHKOV, Ye.A.; LESENKO, I.I.

Riser head with a two-layer lining. Metallurg 8 no.2:20
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1. Azovskiy staleplavil'nyy zavod im. Sergo Ordzhonikidze
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(Steel ingots)

KAZACHKOV, Ye.A.; KIRYUSHKIN, Yu.I.; SKOBLO, S.Ya.; BUL'SKIY, M.T. [deceased];
SVIRIDENKO, F.F.; SAPELKIN, N.F.

Formation and heterogeneity of rail ingots cast in ingot molds
with a varying wall thickness. Izv. vys. ucheb. zav.; chern.
met. 7 no.11:75-80 '64. (MIRA 17:12)

1. Zhdanovskiy metallurgicheskiy institut.

KLAYN, V. [Klyne, W.]; KIRYUSHKINA, A.A. [translator]

Optical rotatory dispersion. Usp.khim. 31 no.3:385-396 Mr '62.
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(Optical rotation) (Dispersion)

KREMS, A.Ya.; MISHAKOV, V.N.; MODELEVSKIY, M.Sh.; KIRYUSHKINA, A.A.;
YUDIN, Ye.Ya.

Ukhta petroleum. Neft. khoz. 42 no.9/10:80-84 S.O '64.
(MIRA 17:12)

VOLODINA, M.A.; MISHINA, V.G.; TEREENT'YEV, A.P.; KIRYUSHKINA, G.V.

Synthesis and properties of pyrrolidines and pyrroles. Part 9:
Cyclopentano- and cyclohexanopyrroles. Zhur.ob.khim. 32 no.6:1922-
1925 Je '62. (MIRA 15:6)
(Pyrrole) (Cyclohexane) (Cyclopentane)

TERENT'YEV, A.P.; VOLODINA, M.A.; KIRYUSHKINA, G.V.

Synthesis and properties of pyrrolidines and pyrroles. Part 11:
Cyclopentano-2,3-pyrrolidines. Zhur.ob.khim. 32 no.6:1925-1927
Je '62. (MIRA 15:6)
(Pyrrolidine) (Cyclopentane)

VOLODINA, M.A.; KIRYUSHKINA, G.V.; TEREENT'YEV, A.P.

Synthesis of cycloalkano-2,3-pyrolidines and steric course of
Leikart's reaction. Dokl. AN SSSR 162 no.1:90-93 My '65. (MIRA 18:5)

1. Moskovskiy gosudarstvennyy universitet. 2. Chlen-korrespondent
AN SSSR (for Terent'yev).

KEL'MAN, F.N.; KIRYUSHKINA, M.S.

Improved method for determining arsenic in vanadium catalysts.
[Trudy] NIUIF no.164:45 '59. (MIRA 15:5)
(Arsenic—Analysis)

ZENIN, A.A.; KIRYUSHKINA, V.V.; MOROZOVA, G.M.

Regimen of principal ions of the Volga River in the tail water of the Volgograd Reservoir, 1959-1961. Gidrokhim. mat. 38:3-11 '64.

Flow of dissolved substances of the Volga River into the Caspian Sea. Ibid.:12-16

Regimen of biogenic and organic substances and dissolved gases of the Volga River in the tail water of the Volgograd Reservoir, 1959-1961. Ibid.:17-24 (MIRA 18:4)

1. Gidrokhimicheskiy institut AN SSSR, Novocherkassk.

KIRYUSHOV, A. YA.

AID P - 4849

Subject : USSR/Engineering

Card 1/2 Pub. 103 - 9/26

Authors : Morozov, I. K., P. A. Sharanov and A. Ya. Kiryushov

Title : Control devices for parts processed in grinding machines

Periodical : Stan. 1 instr., ²⁷ 2, 25-28, F 1956

Abstract : The authors present several measuring devices installed on cylindrical grinding machines, on surface grinders, and others. They illustrate the construction and describe the operation of these devices; their advantages in increased productivity of the machines, and their immediate effect on quality and precision of finished products. The use of such control instruments reduces spoilage and minimize the time required in manual inspection. Six drawings.

AID P - 4849

Stan. 1 instr., 2, 25-28, P 1956

Card 2/2 Pub. 103 - 9/26

Institution : Interchangeability Bureau of the Ministry of Machine
Tools and Apparatus Industry (MSiIP)

Submitted : No date

DRAUDIN, A.T., inzh.; KIRYUSHOV, A.Ya.

Automatic monitors. Mekh.i avtom.prcizv. 18 no.2:24-27 F '64.
(MIPA 17:4)

WHEAT, L. A.; KIRBY, L. Y.

Automatic universal testing unit. Stan. 1 instr. 35 n. 5:24-32
My '64. (1964 17:7)

KIRYUSHOV, P. YA.

PROCESSING AND PROPERTIES INDEX

The contact isomerization of ethylene bialkyl over chromic oxide. 1. Isomerization of bialkyl over chromic oxide. R. Ya. Kiryushov and P. Ya. Kiryushov. *J. Gen. Chem. (U. S. S. R.)* 9, 1834-35 (1938). *C. A.* 31, 8516. If Cr_2O_3 instead of Al_2O_3 is used in the previous procedure, bialkyl is fully isomerized without polymerization to isoprenyl at 225-230°. Bipropenyl, b. 81.5-2°, n_D^{20} 1.4878, d_4^{20} 0.7174, M. R. 30.8, when condensed with maleic anhydride by the method of Davis, *et al.* (*C. A.* 23, 3022). *Give p-dimethyltetrahydro-o-phthalic anhydride*. (has. H₂ m. 94°.

AND SLA METALLURGICAL LITERATURE CLASSIFICATION

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2028-2037

2038-2047

2048-2057

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2118-2127

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2138-2147

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2168-2177

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1. LEVINA, R. Ya., KIRYUSHOV, P. Ya.

2. USSR (600)

"The Isomerization of Unsaturated Hydrocarbons in Contact with Metallic Oxides -- II. The Isomerization of Diallyl under the influence of Contact with Chromium Oxide", Zhur. Obshch. Khim. 9, No. 20, 1939. Laboratory of Organic Chemistry imeni Academician N. D. Zelinskiy, Moscow State Univ. Received 29 April 1939.

9.  Report U-1626, 11 Jan 1952.

KIR YUL'SHOV, P. Ya.

507/5055

TABLE 1 BOOK INFORMATION

Vsesoyuznaya konferentsiya po treniyu i iznosu v mashinakh. 3d. 1958.

Otdel'noizdaniye teorii i praktiki. Obozracheniye. Smashka i srazhennye materialy (Hydrodynamic Theory of Lubrication, Slip Bearings, Lubrication and Lubricant Materials) Moscow, Izdatel'stvo Mashinostroyeniya, 1958. 422 p. 110,000 copies printed. (Series: Iza: Trudy, v. 3)

Sponsoring Agency: Akademiya nauk SSSR, Institut mashinovedeniya. Rep. Ed. for the Section "Hydrodynamic Theory of Lubrication and Slip Bearings": Ye. M. Gut'yar, Professor, Doctor of Technical Sciences, and A. K. D'yachkov, Professor, Doctor of Technical Sciences; Rep. Ed. for the Section "Lubrication and Lubricant Materials": G. V. Vinogradov, Professor, Doctor of Chemical Sciences; Ed. of Publishing House: M. Ya. Klebanov; Tech. Ed.: G. M. Gus'kova.

PURPOSE: This collection of articles is intended for practicing engineers and research scientists.

COVERAGE: The collection, published by the Institut mashinovedeniya AN SSSR (Institute of Science of Machines Academy of Science SSSR) contains papers presented at the III Vsesoyuznaya konferentsiya po treniyu i iznosu v mashinakh (Third All-Union Conference on Friction and Wear in Machines) which was held on 9-15, 1958. Problems discussed were in which was held: "Hydrodynamic Theory of Lubrication and

Hydrodynamic Theory (Cont.) 507/5055

Julliyev, A. M. Results of the Work of the Akmi NP (Azerbaijani Scientific Research Institute of the Petroleum Industry) in the Field of Synthesis, Investigation, and Application of Additives to Lubricating Oils 366

Puchkov, N. G., M. S. Buravay, and V. D. Reznikov. Change in the Chemical Composition and in the Operating Properties of Oils During Use in an Engine 373

Ramzya, E. S., and R. Kh. Sil'm. Mechanism of the Corrosive Activity of Oils and the Protective Action of Additives 381

Puka, G. I., N. Ye. Gal'tsova, E. Ya. Kirushova, A. S. Kibchayuk, and I. I. Usk. On the Applicability of Synthetic Esters as Lubricant Materials 386

Puta, G. I., and E. I. Kaverina. Lubricating Capacity and Properties of the Boundary Layers of Oils (Physical Significance and Characteristics of the Lubricating Capacity of Oils) 397

Klimov, K. I., and P. P. Zavadnyy. Mechanical Destruction of Solutions of Polyisobutylene in Mineral Oils (Published in 1959 under the title: "Mechanical Destruction of Solutions of Polyisobutylene in Mineral Oils") (Khimiya i tekhnologiya topliv i masel, No. 2, 1959) 408

Pavlov, V. P. Elastic-Endurance Properties of Lubricant Materials ("Izv. AN SSSR, OTN, "Mekhanika i mashinostroyeniye", No. 2, 1959) 408

Pirskov, Ye. M., and S. G. Arabyan. Development of an Accelerated Method for Testing Oils for Diesel Tractors ("Traktory i sel'mashinostroyeniye", No. 9, 1958) 408

KIRYUSHOV, V.N.

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21. fvd

AUTHORS: Davankov, A. B., Laufer, V. M., Azhazha, E. G., Gordiyevskiy, A. V.,
Kiryushov, V. N.

TITLE: Experiences in extracting uranium and other elements from Atlantic
Ocean water

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Tsvetnaya Metallurgiya, no.
2, 1962, 118-123

TEXT: Experiments of extracting various elements from Atlantic Ocean
water were carried out in 1959, during the sixth Atlantic expedition of the
Marine Hydrophysical Institute of AS SSSR. Water from various parts of the
Atlantic was filtered through an absorption column mounted on board the expedi-
tion vessel. This vinylplastic column, 1,600 mm high with 63 mm internal diam-
eter, was filled with 3.5 kg granulated H-O anion-exchange resin in Cl form of
64% moisture. An amount of 59,189 liters of water was filtered through the
column at an average rate of 40 l/hour. The qualitative and quantitative deter-
mination of various elements in the resin was carried out by radiometric
 β -radiation, luminescent and polarographical analyses. The amount of uranium

Card 1/2

Experiences in extracting uranium,...

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A006/A101

extracted on conversion to the total amount of air-dry H-O resin was 303 mg according to data of radiometrical analysis; 413 mg according to luminescent analysis, and 417 mg according to polarographical analysis. The uranium content in the Atlantic water calculated from these data was: $5.12 \cdot 10^{-6}$ g/l; (radio-metric analysis); $6.99 \cdot 10^{-6}$ g/l (luminescent analysis) and $7.04 \cdot 10^{-6}$ g/l (polarographical analysis) or on conversion to normal sea water $4.7 \cdot 10^{-6}$ g/kg; $6.41 \cdot 10^{-6}$ g/kg and $6.47 \cdot 10^{-6}$ g/kg, respectively. Semi-quantitative spectroscopical analysis of ash residue after burning the O-H resin was used to establish the presence of small amounts of silver, strontium, bismuth, zinc, copper, manganese, iron, aluminum, silicon, calcium, magnesium, and sodium. The silver content in the absorbent was determined by cupellation of the ash residue after burning 200 g O-H resin. An amount of 2.5 mg pure silver was then separated out which is $5.75 \cdot 10^{-7}$ g per one liter of water. There are 4 tables and 13 references: 6 Soviet-bloc and 7 non-Soviet-bloc

ASSOCIATIONS: Moskovskiy khimiko-tekhnologicheskiy institut (Moscow Chemical and Technological Institute); Kafedra tekhnologii plastmass (Department of the Technology of Plastics)

SUBMITTED: February 25, 1961

Card 2/2

MIKHAYLOV, Ya. Ye.; NABOYCHENKO, K. V.; ASTASHENKOV, N. N.; KIRYUTIN, A. A.

"Investigation into critical heat fluxes in a channel of annular cross-section with forced motion of acetone subcooled below the saturation temperature."

paper submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 May 1964.

Moscow Engineering & Physical Inst.

L 39739-66 EWT(1)/EWT(m)/EPP(n)-2/ETC(f)/EWG(m) IJP(c) RM/WW/GS/OD-2
ACC NR: AT6005822 SOURCE CODE: UR/0000/65/000/000/0143/0150

AUTHORS: Mikhaylov, L. Ye.; Naboychenko, K. V.; Kiryutin, A.A.

ORG: none

TITLE: Experimental results on the boiling crisis in forced motion of acetone, benzene, and monoisopropyl diphenyl

SOURCE: Moscow, Inzhenerno-fizicheskiy institut. Nekotoryye voprosy fiziki i tekhniki yadernykh reaktorov (Some problems in the physics and engineering of nuclear reactors). Moscow, Atomizdat, 1965, 143-150

TOPIC TAGS: boiling, heat transfer, acetone, benzene, organic cooled nuclear reactor, nucleate boiling, liquid flow, forced flow

ABSTRACT: The authors describe the results of experiments carried out at MIFI to determine the critical densities of heat flux under forced motion of the liquids in question through an annular channel. The purpose of the experiments was to check on theoretical relations derived by one of the authors (Mikhaylov, Prikl. mekh. i tekhn. fizika no. 3, 130, 1963) and to proceed to an investigation of the mixture

Card 1/3

L 39739-66

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of monoisopropyl diphenyl and benzene on the basis of the experimental data for benzene and monoisopropyl diphenyl separately, since the critical heat flux for a mixture turns out to be higher for each of the pure liquids. The apparatus used was a closed circulating loop driven by a glandless centrifugal pump with screened drive, designed for pressure up to 100 bar and temperature up to 400C and delivery up to 5 m³/hr. The liquid flows through an annular channel between a heating element and a glass tube, with inside and outside measuring 6/10 mm in diameter and 22 mm in length. The fuel element was made of stainless steel and was heated with direct current. The transition from nucleate to film boiling (boiling crisis) was observed through a window and was also recorded automatically by measuring the change in the resistance of the fuel element. Two methods were used to reach critical thermal load, one using gradual heating of the fuel element itself, and the other using auxiliary heaters. The tests were made at various pressures and velocities, which were maintained constant during each experiment. The results are presented in the form of tables. The experimental values are about 10 -- 30% higher

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L 39739-66

ACC NR: AT6005822

for benzene and 10 -- 15% higher for acetone than the theoretical values, the discrepancy increasing with the pressure. There are no comparable published data. The experiments with monoisopropyl diphenyl were compared with the data of L. S. Sterman and V. D. Mikhaylov (Teploenergetika no. 2, 82, 1963) and are found to be in good agreement with them. Orig. art. has: 3 tables.

SUB CODE: 20,18/SUBM DATE: 05Jun65/ ORIG REF: 004/ OTH REF: 001

Card H-5 3/3

L 23200-66 EWT(m)/EWP(j)/ETC(m)-6 RM/WW/JW
 ACC NR: AP6005894 (N) SOURCE CODE: UR/0096/65/000/011/0081/0086
 AUTHOR: Naboychenko, K. V. (Engineer, Dissertator); Kiryutin, A. A.
 (Engineer); Gribov, B. S. 52
 ORG: Moscow Engineering Physics Institute (Moskovskiy inzhenerno-
fizicheskiy institut) B
 TITLE: Investigation of critical heat fluxes in the forced motion of a
monoisopropyldiphenyl-benzene mixture
 SOURCE: Teploenergetika, no. 11, 1965, 81-86
 TOPIC TAGS: benzene, boiling, heat flux, fluid flow
 ABSTRACT: In the experiments, the boiling crisis was observed on the
 outer surface of a heat-evolving element made in the form of a stainless
 steel tube with a diameter of 6 mm and a length of 80 mm placed coax-
 ially in a glass tube with a diameter of 10 mm. The flow rate of the
 liquid through the annular channel was measured with a double diaphragm.
 For each concentration, a series of experiments was made to determine
 the critical heat flux at pressures of 2.94, 4.96, 8.82, and 16.37 bars
 and velocities of 4 and 8 m/sec, for heating from 25 to 125°C. Liquid
 samples were taken before and after each series. In all, more than 2

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Card 1/2

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ACC NR: AP6005894

1000 measurements were made for weight concentrations of benzene in the mixture equal to 1.5, 2.5, 3.9, 6.5, 10.5, 13.4, 25.0, 38.0, 48.0, 77.0, 89.0, 94.5, 97, and 99.5, for the above listed pressures and velocities, and with heating to the saturation temperature in the interval from 25 to 125°C. The dependence of the critical heat load on the composition of the mixture is illustrated in a series of curves. The article continues to develop mathematically a dimensionless formula for determination of the critical heat flux. This relationship is said to fit the experimental data for the mixture with an accuracy of 30%. Orig. art. has: 18 formulas and 7 figures.

SUB CODE: 07, 20/ SUBM DATE: none/ ORIG REF: 008/ OTH REF: 006

Card 2/2